

**In the Claims:**

1. (canceled)
2. (canceled)
3. (canceled)
4. (canceled)
5. (canceled)
6. (canceled)
7. (canceled)
8. (canceled)
9. (canceled)
10. (canceled)
11. (new) An antibody immunologically specific for an isolated human MED1 protein of SEQ ID NO: 2, about 580 amino acids in length, said protein comprising an amino-terminal methyl CpG-binding domain, an internal segment containing a plurality of positively charged amino acids and a carboxyterminal catalytic domain, said protein having binding affinity for CpG-methylated DNA.
12. (new) The antibody as claimed in claim 11, said antibody being monoclonal.

13. (new) The antibody as claimed in claim 11, said antibody being polyclonal.
14. (new) An antibody fragment immunologically specific for a MED1 protein of SEQ ID NO: 2, said fragment being selected from the group consisting of Fab fragment, Fv fragment, isolated CDR region and F(ab')<sub>2</sub> fragment, and single chain Fv fragment.